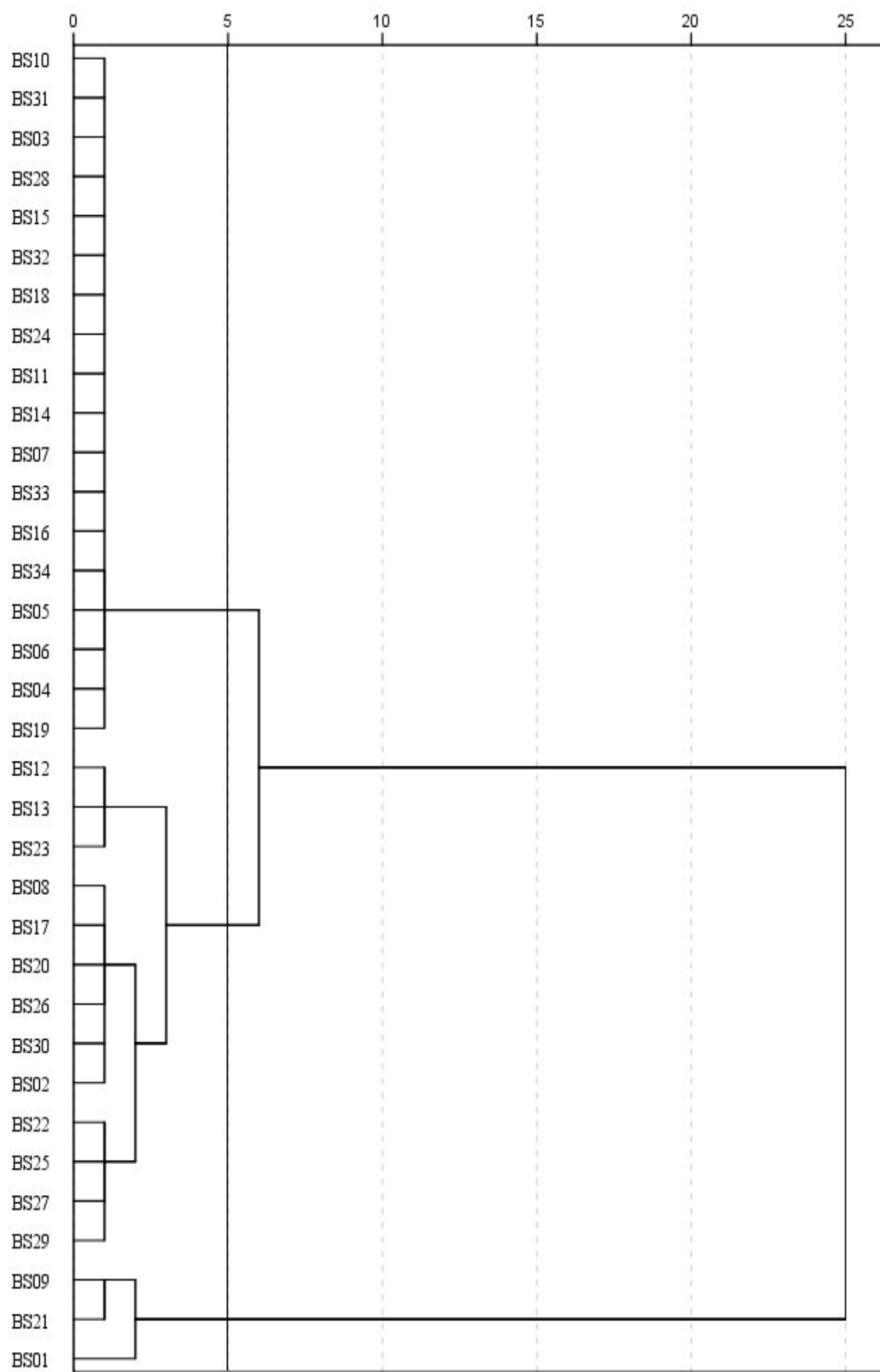


**Supplementary Figure S1. Clustering analysis of seed vigor of 131 strains tested in the regional trial test in Huanghuaihai, China in 2021**



**Supplementary Figure S2. Cluster analysis of seed vigor of 34 soybean strains tested in the regional trial test in Huanghuaihai, China in 2021**